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| APPLICATION NO. FILING | | IG DATE FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|------------------------|-----------|------------------------------|-----------------|-------------------------|------------------|--|
| 10/697,434 | 10/3 | 31/2003 | Thomas Arend | 08516.0007 | 7744 | |
| 22852 | 7590 | 09/18/2006 | EXAMINER | | | |
| | N, HENDEI | RSON, FARABO | CONTINO, PAUL F | | | |
| LLP 901 NEW Y | ORK AVEN | UE, NW | ART UNIT | · PAPER NUMBER | | |
| WASHINGT | | • | 2114 | | | |
| | | | | DATE MAILED: 09/18/2006 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | A 1: A: | - Ma | A | | | | | |
|---|---|---|---|--|-------------|--|--|--|--|
| | | Applicati | on ivo. | Applicant(s) | | | | | |
| | Office Action Summan | 10/697,43 | 34 | AREND, THOMAS | | | | | |
| | Office Action Summary | Examine | | Art Unit | | | | | |
| | | Paul Cont | | 2114 | | | | | |
| Period fo | The MAILING DATE of this communication approximation of the second section approximation approxim | ppears on the | e cover sheet with the c | orrespondence ac | idress | | | | |
| WHIC - Exter after - If NC - Failu Any I | ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by statu- reply received by the Office later than three months after the mail and patent term adjustment. See 37 CFR 1.704(b). | DATE OF Th .136(a). In no ev d will apply and w tte, cause the app | HIS COMMUNICATION ent, however, may a reply be timil expire SIX (6) MONTHS from lication to become ABANDONE | N. nely filed the mailing date of this o D (35 U.S.C. § 133). | , | | | | |
| Status | | | | | | | | | |
| 1)⊠ | Responsive to communication(s) filed on 25 | August 2006 | 1 | | | | | | |
| , | Responsive to communication(s) filed on <u>25 August 2006</u> . This action is FINAL . 2b) This action is non-final. | | | | | | | | |
| | · - | | | secution as to the | e merits is | | | | |
| ا ا | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | | |
| Dispositi | ion of Claims | _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,, | | | | | | |
| | | ha annliaatie | | | | | | | |
| • | Claim(s) <u>1,3-10 and 12-14</u> is/are pending in the application. | | | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | | |
| • | Claim(s) is/are allowed. | | | | | | | | |
| | Claim(s) <u>1,3-10 and 12-14</u> is/are rejected. | | | | | | | | |
| · | • | | | | | | | | |
| 8)[| Claim(s) are subject to restriction and | or election r | equirement. | | | | | | |
| Applicati | on Papers | | | | | | | | |
| 9) 🗌 | The specification is objected to by the Examir | ner. | | | | | | | |
| 10)⊠ | The drawing(s) filed on <u>31 October 2003</u> is/ar | e: a)⊠ acc | epted or b) objected | to by the Examin | ner. | | | | |
| | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | |
| | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | | |
| 11) | The oath or declaration is objected to by the E | • | - ', - | | , , | | | | |
| Priority ι | ınder 35 U.S.C. § 119 | | | | | | | | |
| | Acknowledgment is made of a claim for foreig ☑ All b)☐ Some * c)☐ None of: | ın priority un | der 35 U.S.C. § 119(a) | o-(d) or (f). | | | | | |
| | 1.⊠ Certified copies of the priority documents have been received. | | | | | | | | |
| | 2. Certified copies of the priority documents have been received in Application No | | | | | | | | |
| | 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | | | |
| | application from the International Bure | au (PCT Rul | e 17.2(a)). | | | | | | |
| * 9 | See the attached detailed Office action for a lis | st of the certi | fied copies not receive | ed. | | | | | |
| | | | | | | | | | |
| Attachmen | t(s) | | | | | | | | |
| | e of References Cited (PTO-892) | | 4) Interview Summary | | | | | | |
| | e of Draftsperson's Patent Drawing Review (PTO-948) | | Paper No(s)/Mail Da 5) Notice of Informal P | | | | | | |
| | nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date | | 6) Other: | atent Application | | | | | |
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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1, 3-10, and 12-14 have been considered but

are moot in view of the new ground(s) of rejection.

2. Applicant's arguments filed August 25, 2006, with respect to the remarks on pages 9 and

10 regarding claim 9, have been fully considered but they are not persuasive.

The Examiner respectfully disagrees with the Applicant's arguments regarding Bajpai

failing to teach of passing/processing a first set of search results to/by an expert system. As

disclosed in Bajpai on page 9 in lines 20-22 and 28-29, and page 10 lines 7-9, information is

passed from expert system 30 to remote diagnostic element 50. This information is interpreted

as containing search results from a first diagnostic attempt. The fact that remote diagnostic

element 50 even receives a request to process this information and assist in solving a problem is

interpreted as receiving a result by the expert system 30 that the problem could not be solved.

There is no specific description as claimed defining the content or nature of the "search results".

Therefore, the Bajpai reference is interpreted as anticipating claim 9 when the limitations of the

claim are read in its broadest reasonable terms.

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Art Unit: 2114

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-6, 9-10, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by

Bajpai (WO 97/15009).

3.

As in claim 1, Bajpai discloses a distributed computer system comprising:

a first main system and a second main system, both to execute applications in cooperation

with a human user (Figs. 1 and 2; page 4 lines 20-21, processor 10 and page 5 lines 7-11, local

diagnostic element 28; page 10 lines 28-30, where it is interpreted that there may be multiple

main system diagnostic elements 28); and

a service system to evaluate problems in the first and second main systems (Figs. 1 and

5; page 10 lines 17-21 and 28-30, remote digital data processor 12 / diagnostic element 50), the

service system comprising:

a service module configured to collect problem related data from the main systems, the

problem related data representing a problem identified about data in at least one of the first or

second main systems (Fig. 5; page 10 lines 7-9 and 17-19, communications devices 52);

an acquisition module configured to acquire knowledge representations, the knowledge representations defining solution identification rules (Fig. 5; page 10 lines 20-27, expert system engine 56, where the knowledge representations are acquired from databases 58 and 60);

a knowledge module configured to store the knowledge representations (Fig. 5; page 10 lines 20-27, databases 58 and 60); and

an inference module configured to process problem related data with knowledge representations to identify solutions and forward the solutions through the service module to the main systems (Fig.5; page 10 lines 20-27, where the expert system engine 56 is interpreted as an inference module), wherein the identified solutions are applied to solve the problems (page 11 lines 7-12 and 16), and wherein the first and second main systems have first and second auxiliary systems, respectively, with auxiliary knowledge representations to evaluate problems in at least one of the first or second main systems and to escalate problem evaluation to the service system (Figs. 1 and 2; page 5 lines 7-9, where the expert system 30 and databases 34,36,38 are interpreted as an auxiliary system and a knowledge representations, respectively; page 9 lines 19-27 describes problem evaluation escalation).

As in claim 3, Bajpai discloses the knowledge representations in the service system are enhanced in comparison to the auxiliary knowledge representations in the first and second auxiliary systems (page 9 lines 22-23).

As in claim 4, Bajpai discloses the knowledge representations are enhanced in volume, actuality and complexity (page 9 lines 22-23).

As in claim 5, Bajpai discloses the first and second auxiliary systems forward problem data to the service system after preliminary data analysis by processing with the auxiliary knowledge representations (page 9 lines 19-29).

As in claim 6, Bajpai discloses the services system updates the auxiliary knowledge representations in the first and second auxiliary systems (page 9 lines 26-27).

As in claim 9, Bajpai discloses a method for solving a problem in at least one main computer system by expert systems, comprising:

detecting the problem in the main system (page 5 lines 14-15);

processing problem related data with a first set of knowledge representations of a first expert system to search for a solution to identify a first set of search results, the problem related data representing a problem identified about data in the main system, and the first set of knowledge representations defining solution identification rules (page 5 lines 18-20 and page 7);

depending on processing results, selectively solving the problem by the first expert system (page 7 lines 14-16) or forwarding the problem related data together with the first set of search results to a second expert system with a second set of knowledge representations, the first set of knowledge representations defining solution identification rules (page 6 line 11, page 9 lines 19-22 and 28-29, and page 10 lines 3-9, where it is implied the search carried out by a first expert system was insufficient and requires further search by a second expert system);

processing the problem related data, the first set of search results and the second set of knowledge representations by the second expert system to search for the solution to identify a second set of search results (page 10 lines 17-21 and page 11 lines 5-24); and

depending on processing results, selectively solving the problem by the second expert system (page 11 lines 19-24) or presenting the first and second set of search results and problem related data to a human (page 11 lines 25-29).

As in claim 10, Bajpai discloses a computer program product stored in a computer-readable medium comprising program code means for performing the method of claim 9 when the computer program product is run on a computer (page 5 lines 1-6).

As in claim 14, Bajpai discloses an inference module processes the problem related data with knowledge representations in a dynamic adaptive order or a hierarchical order (page 7 lines 1-16).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bajpai in view of Turek et al. (U.S. Patent No. 6,460,070).

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As in claim 7, Bajpai discloses the first and second auxiliary systems each [respectively] have a service module to collect problem related data from the main systems (Fig. 2 #30; page 5 lines 14-15), an acquisition module to acquire knowledge representations (Fig. 2 #30; where expert system 30 is interpreted as acquire knowledge representations from expert system databases 34,36,38), a knowledge module to store the knowledge representations (Fig. 2 #s 34,36,38; page 5 lines 18-20), and an inference module for processing problem related data with knowledge representations to identify solutions (Fig. 2 #30; page 5 lines 18-20), the inference module for selectively forwarding the problem related data through the [respective] service module to the [respective] main systems (Fig. 2 #32; page 5 lines 12-17, where a user interface may be interpreted as a "main system" and an expert system, databases, and network connectivity may be interpreted collectively as an "auxiliary system") and forwarding data to the service system (page 11 lines 5-6).

However, Bajpai fails to explicitly teach of forwarding solutions to a main system. Turek et al. teaches of system with a tier of main systems, a tier of auxiliary systems, and an expert system (Figs. 1 and 5; column 3 line 47 through column 4 line 12, column 5 line 61 through column 6 line 25, and column 9 lines 30-36, where TN Manager 14 is interpreted as an expert system, Managed Nodes 16 are interpreted as auxiliary systems, and Terminal Nodes 18 are interpreted as main systems, where each system contains respective diagnostic modules and knowledge databases). The system as taught by Turek et al. parallels that as taught by Bajpai

when the User Workstation 10 [Terminal Node] is interpreted as a main system, the Remote Diagnostic Workstation 12 [Managed Node] is interpreted as an auxiliary system, and the Engineer's Workstation 14 [TN Manager] is interpreted as an expert system, where the Remote Diagnostic Workstation 12 would forward solutions to User Workstation 10 or data to Engineer's Workstation 14. Further, it is interpreted that the inclusion of multiple Diagnostic Workstations 12 connected to at least one Engineer's Workstation 14 does not warrant patentability over the prior art [MPEP 2144.04(VI)(B.) "Duplication of Parts"].

It would have been obvious to a person skilled in the art at the time the invention was made to have included the layout as taught by Turek et al. in the invention of Bajpai. This would have been obvious because the invention of Turek et al. reduces the amount of resources necessary to operate in a distributed diagnostic system (column 9 lines 45-50).

* * *

5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bajpai in view of Aslanian et al. (U.S. Patent No. 5,111,384).

As in claim 8, Bajpai teaches the inference module applies the knowledge representations for both main systems. However, Bajpai fails to explicitly teach of distinguishing the main system versions. Aslanian et al. teaches of distinguishes version differences of the main systems by looking up in a check lexicon (page 2 lines 3-43, page 3 lines 38-43, and page 8 lines 23-38).

(page 9 lines 26-27 and page 10 lines 3-9).

It would have been obvious for a person skilled in the art at the time the invention was made to have included the version distinguishing as taught by Aslanian et al. in the invention of Bajpai. This would have been obvious because the invention of Aslanian et al. offers a time and resource efficient means of utilizing an expert system and a knowledge representation base in order to solve a problem (page 1 lines 66-68). Further, Aslanian et al. implies distinguishing of main system versions through the examination of various operating system files and the Registry

* * *

6. Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bajpai in view of Aslanian et al. (U.S. Patent No. 5,111,384), further in view of Cha et al. (WO 01/18652 A1).

As in claim 12, the combined invention of Bajpai and Aslanian et al. teaches the elements of claim 11. However, the combined invention of Bajpai and Aslanian et al. fails to teach of an enterprise resource planning system. Cha et al. teaches of an enterprise resource planning system (Fig. 4; page 4 lines 17-18, page 7 lines 3-10, and page 11 lines 18-24, where the R/3 system is interpreted as an enterprise resource planning system)

It would have been obvious for a person skilled in the art at the time the invention was made to have included the enterprise resource planning system as taught by Cha et al. in the combined invention of Bajpai and Aslanian et al. This would have been obvious because the

invention as taught by Cha et al. offers a time and cost efficient expert system for diagnosing

problems (page 2 lines 5-12). Further, it is well-known in the art to implement expert system

diagnostics in an enterprise resource planning system [R/3] environment (Applicant's

Specification paragraph [024]).

As in claim 13, the combined invention of Bajpai and Aslanian et al. teaches the elements

of claim 11. However, the combined invention of Bajpai and Aslanian et al. fails to teach of an

R/3 system. Cha et al. teaches of an R/3 system (Fig. 4; page 4 lines 17-18, page 7 lines 3-10,

and page 11 lines 18-24)

It would have been obvious for a person skilled in the art at the time the invention was

made to have included the R/3 system as taught by Cha et al. in the combined invention of

Bajpai and Aslanian et al. This would have been obvious because the invention as taught by Cha

et al. offers a time and cost efficient expert system for diagnosing problems (page 2 lines 5-12).

Further, it is well-known in the art to implement expert system diagnostics in an R/3

environment (Applicant's Specification paragraph [024]).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure:

WO 98/53396 Topff discloses a distributed help desk system.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Contino whose telephone number is (571) 272-3657. The examiner can normally be reached on Monday-Friday 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman can be reached on (571) 272-3644. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PFC 9/6/2006

SCOTT BADERMAN
SUPERVISORY PATENT EXAMINER